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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	5	of	9
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Complete If Known	
Application Number	09/745,285
Filing Date	12/21/2000
First Named Inventor	Rudolph W. Frey
Group Art Unit	3739
Examiner Name	
Attorney Docket Number	24430.13

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Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
EA	EA	6,007,204		Fahrenkrug et al.	Dec. 28, 1999	
EB	EB	6,043,885		Mazuet et al.	Mar. 28, 2000	
EC	EC	6,050,687		Bille et al.	Apr. 18, 2000	
ED	ED	6,057,913		Brown et al.	May 02, 2000	
EE	EE	6,086,204		Magnante	Jul. 11, 2000	
EF	EF	6,095,651		Williams et al.	Aug. 1, 2000	
EG	EG	6,155,684		Bille et al.	Dec. 05, 2000	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office	Number	Kind Code (If known)			
EH	EH	PCT	WO 87/05205		G. Rodenstock Instrumente GmbH	Sept. 11, 1987	T
EI	EI	PCT	WO 87/06478		Institut National De La Sante Et De La Recherche Medicale	Nov. 5, 1987	
EJ	EJ	PCT	WO 92/01417		Horwitz, Larry S.	Feb. 6, 1992	
EK	EK	JP	5-146409		Topcon Corp.	June 15, 1993	T
EL	EL	JP	6-327634		Topcon Corp.	Nov. 29, 1994	T
EM	EM	WO	95/28989		Autonomous Technologies Corp.	Nov. 2, 1995	
EN	EN	EP	0 697 611	A3	Carl Zeiss	Feb. 21, 1996	T
EO	EO	EP	0 697 611	A2	Carl Zeiss	Feb. 21, 1996	T
EP	EP	DE	42 22 395	A1	Meyer-Roedern	Jan. 13, 1994	
EQ	EQ	PCT	WO 98/27863		University of Rochester	July 2, 1998	T

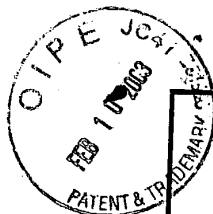
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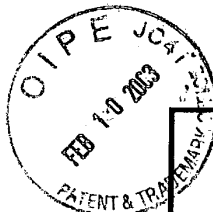
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	ER	PULIANTO, et al., "High-Speed Photography of Excimer Laser Ablation of the Cornea," <i>Arch. Ophthalmol.</i> , Vol. 105, Sept. 1987, pages 1255-1259.	
dm	ES	LLANG, et al., "Objective Measurement of Wave Aberrations of the Human Eye with the Use of a Hartmann-Shack Wave-front Sensor," <i>J. Opt. Soc. Am. A</i> , Vol. 11, No. 7, July 1994, pages 1949-1957.	
dm	ET	WU, "Supernormal Vision, a Focus on Adaptive Optics Improves Images of the Eye and Boosts Vision," <i>Science News</i> , Vol. 152, November 15, 1997, pages 312-313.	
dm	EU	DREHER, et al., "Active Optical Depth Resolution Improvement of the Laser Tomographic Scanner," <i>Applied Optics</i> , Vol. 28, No. 4, February 1989, pages 804-808.	
dm	EV	GEARY, "Appendix 1.1 - Basic Geometrical Optics, Chapter 6 - Indirect Wavefront Measurement, Part II," and "Chapter 7 - Wavefront Sensor Characterization & Calibration," <i>Introduction to Wavefront Sensors</i> , May 1995, pages 10-11, 89-103, and 105-109.	
dm	EW	"Scientists Snap Sharpest Pictures of Living Human Retina," http://www.rochester.edu/pr/releases/opt/will.htm , October 3, 1994.	
dm	EX	THE APPLIED OPTICS GROUP, "Shack Hartmann Sensors," http://op.ph.ic.ac.uk/ao/sh_sense.html , June 4, 1996, pages 1-3.	
dm	EY	THE APPLIED OPTICS GROUP, "Results from UKIRT," http://op.ph.ic.ac.uk/ao/ukirt_res.html , February 22, 1995, pages 1-2.	
dm	EZ	THE APPLIED OPTICS GROUP, "Astronomical Imaging Through Turbulence: An Overview," http://op.ph.ic.ac.uk/ao/overview.html , June 4, 1996, pages 1-4.	
dm	FA	eESA, WFS, "Wave Front Sensor," http://esapub.esrin.esa.it/pointtotest/test251.html , May 23, 1997, pages 1-2.	
dm	FB	WILLIAMS, "Limits of Human Vision," http://www.cvs.rochester.edu/people/d_williams/d_williams.html , December 30, 1998, pages 1-4.	
dm	FC	"Extensions of Low-Cost Adaptive Optics: Imaging of Space-Objects, the Retina, and Power Projection," <i>Industrial Sensors and Actuators</i> , dated Dec. 1993 (actual publication date, if any, unknown), pp. 1, 10, and 15.	

Examiner Signature	<i>[Signature]</i>	Date Considered	May 1, 2003
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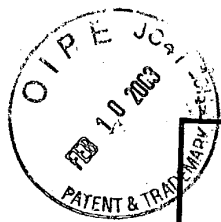
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	FD	LABJUHN, et al., "Astigmatismuskorrektur durch Laserthermokeratoplastik (LTK) - Ein Ansatz für die Korrektur des hohen Astigmatismus nach Perforierender Keratoplastik, <i>Contactologia</i> 18D (1996), pp. 175-183.	
	FE	COHEN, et al., "Assessment of the Power and Height of Radial Aspheres Reported by a Computer-assisted Keratoscope," <i>American Journal of Ophthalmology</i> , Vol. 119, Vol. No. 6, Nov. 30, 1994, pp. 723-732.	
	FF	CORBETT, et al., "The Topography of the Normal Cornea," <i>Eur J Implant Ref Surg.</i> , Vol. 6, Oct., 1994, pp. 286-297.	
	FG	MAEDER, et al., "Accurate 3D Corneal Surface Measurement Using an Automated Mapping Approach," <i>SPIE</i> , Vol. 2434, 1995, pp. 328-334.	
	FH	SALMON, et al., "Comparison of Elevation, Curvature, and Power Descriptors for Corneal Topographic Mapping," <i>Optometry & Vision Science</i> , Vol. 72, No. 11, 1195, pp. 800-808.	
	FI	PAVLOPOULOS, et al., "The Effect of Artificial Tears on Computer-assisted Corneal Topography in Normal Eyes and After Penetrating Keratoplasty," <i>American Journal of Ophthalmology</i> , Vol. 119, June 1995, pp. 712-722.	
	FJ	ROBERTS, "Characterization of the Inherent Error in a Spherically-Biased Corneal Topography System in Mapping a Radially Aspheric Surface," <i>Journal of Refractive & Corneal Surgery</i> , Vol. 10, March/April 1994, pp. 103-111.	
	FK	THORNTON, "Clinical Evaluation of Corneal Topography," <i>J. Cataract Refract. Surg.</i> , Vol. 19, Supplement 1993, pp. 198-202.	
	FL	RABINOWITZ, et al., "Computer-assisted Corneal Topography in Keratoconus," <i>Refractive & Corneal Surgery</i> , Vol. 5, Nov./Dec. 1989, pp. 400-408.	
	FM	WILSON, et al., "Accuracy and Precision of the Corneal Analysis System and the Topographic Modeling System," <i>Cornea</i> , Vol. 11, No. 1, 1992, pp. 28-35.	
	FN	BOGAN, et al., "Computer-assisted Videokeratography of Corneal Topography After Radial Keratotomy," <i>Arch. Ophthalmol.</i> , Vol. 109, June 1991, pp. 834-841.	
	FO	BOGAN, et al., "Classification of Normal Corneal Topography Based on Computer-assisted Videokeratography," <i>Arch. Ophthalmol.</i> , Vol. 108, July 1990, pp. 945-949.	

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Sheet	8	of	9	Attorney Docket Number	24430.13

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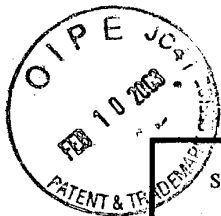
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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Jm	FP	REIDY, et al., "The Corneal Topography of Epikeratophakia," <i>Refractive & Corneal Surgery</i> , Vol. 6, Jan./Feb. 1990, pp. 26-31.	
Jm	FQ	DINGELDEIN, et al., "The Topography of Normal Corneas," <i>Arch. Ophthalmol</i> , Vol. 107, April 1989, pp. 512-518.	
Jm	FR	McDONNELL, et al., "Topographic Analysis and Visual Acuity After Radial Keratotomy," <i>American Journal of Ophthalmology</i> , Vol. 106, No. 6, December 1988, pp. 692-695.	
Jm	FS	McDONNELL, et al., "Corneal Topographic Changes After Radial Keratotomy," <i>Ophthalmology</i> , Vol. 96, No. 1, January 1989, pp. 45-49.	
Jm	FT	KIELY, et al., "The Mean Shape of the Human Cornea," <i>Optica Acta</i> , Vol. 29, No. 8, 1982, pp. 1027-1040.	
Jm	FU	BAFNA, et al., "Corneal Power Calculated by the Paraxial Formula and Snell's Law in Normal Corneas," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2589.	
Jm	FV	MATALLANA, et al., "3-D Video Corneal Topography True Elevation Mapping," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2590.	
Jm	FW	AOYAMA, et al., "Quantitative Evaluation of Corneal Astigmatism Using Computer Corneal Topography and Newly Developed Software," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2591.	
Jm	FX	CELIKKOL, et al., "Neural Network Analysis of Videokeratography Following Excimer Laser Photorefractive Keratectomy," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, Poster No. 2592.	
Jm	FY	WALSH, et al., "Objective Technique for the Determination of Monochromatic Aberrations of the Human Eye," <i>J. Opt. Soc. Am. A</i> , Vol. 1, No. 9, Sept. 1984, pp. 987-992.	
Jm	FZ	WILLIAMS, et al., "Adaptive Optics for High Resolution Retinal Imaging," <i>Investigative Ophthalmology & Visual Science</i> , Vol. 37, No. 3, February 1996, p. 1055.	

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	GA	CHARMAN, "Wavefront Aberration of the Eye: A Review," <i>Optometry and Vision Science</i> , Vol. 68, No. 8, pp. 574-583.	
	GB	BARTSCH, et al., "Resolution Improvement in Confocal Scanning Laser Tomography of the Human Fundus," 1994 <i>Technical Digest Series</i> , Vol. 2 (Optical Society of America, Washington D. C.), 1994, pp. 134-137.	
	GC	DREHER, et al., "Active Optical Depth Resolution Improvement of the Laser Tomographic Scanner," <i>Applied Optics</i> , Vol. 28, No. 4, Feb. 1989, pp. 804-808.	
	GD	BILLE, et al., "Scanning Laser Tomography of the Living Human Eye," <i>Noninvasive Diagnostic Techniques in Ophthalmology</i> , Chapter 28, edited by Masters, B.R., Springer-Verlag, 1990, pp. 528-547.	
	GE	LIANG, JUNZHONG, <i>A New Method to Precisely Measure the Wave Aberrations of the Human Eye with a Hartmann-Shack Wavefront Sensor</i> , Inaugural Dissertation, December 1991, pages 1-115, Heidelberg, Germany.	
	GF	BILLE, et al., "Imaging of the Retina by Scanning Laser Tomography," <i>New Methods in Microscopy and Low Light Imaging</i> , Vol. 1161, 1989, pages 417-425.	
	GG	CUBALCHINI, "Modal Wave-front Estimation from Phase Derivative Measurements," <i>J. Opt. Soc. Am.</i> , Vol. 69, 1979, pages 972-977.	
	GH	"Modal Wave-front Estimation from Phase Derivative Measurements," Referenced in Bille, U.S. Patent No. 5,062,702 IDS, 1990.	
	GI	FREISCHLAD, et al., "Modal Estimation of a Wave Front from Difference Measurements Using the Discrete Fourier Transform," <i>J. Opt. Soc. Am.</i> , Vol. 3, No. 11, November 1986, pages 1852-1861.	
	GJ	KLYCE, et al., "Imaging, Reconstruction, and Display of Corneal Topography," <i>New Methods in Microscopy and Low Light Imaging</i> , Vol. 1161, 1989, pages 409-416.	
	GK	BAKER, "Optical Surface Testing of the Cornea," <i>New Methods in Microscopy and Low Light Imaging</i> , Vol. 1161, 1989, pages 427-437.	
	GL	SOUTHWELL, "Wave-front Estimation from Wave-front Slope Measurements," <i>J. Opt. Soc. Am.</i> , Vol. 70, No. 8, August 1980, pages 998-1005.	

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